AMENDMENTS TO THE CLAIMS

1. (**Currently Amended**) A liquid organometallic compound vaporizing and feeding system comprising:

(1) a liquid reagent container containing a liquid reagent containing a liquid organometallic compound and impurities, a vaporizer for vaporizing the liquid reagent ~~organometallic compound~~, a liquid reagent passageway connecting said container to said vaporizer and having a liquid mass flow controller disposed therein for controlling the flow rate of the liquid reagent ~~organometallic compound~~[[,]];

(2) a carrier gas source, a carrier gas passageway connecting said carrier gas source to said vaporizer so as to carry a mixture of vaporized liquid reagent and the carrier gas and having a gas mass flow controller disposed therein for controlling the flow rate of the carrier gas[[,]];

(3) a sample gas passageway including one end connected to a gas outlet of said vaporizer and another end ~~connected~~ connectable to a sample inlet of an ICP emission spectrometer, and having an in-line monitor for measuring concentration of vaporized liquid reagent in the mixture disposed therein[[,]]; and

(4) a gas cylinder filled with a standard gas for calibration, and a standard gas passageway connecting said gas cylinder to said sample gas passageway at a position downstream of said in-line monitor and having a gas mass flow controller disposed therein for controlling the flow rate of the standard gas.

2. (**Currently Amended**) The vaporizing and feeding system of claim 1, comprising:

a plurality of calibration standard gas cylinders[[,]]; and

a corresponding plurality of standard gas passageways each having a gas mass flow controller disposed therein for controlling the flow rate of the corresponding standard gas.

3. (**New**) The vaporizing and feeding system of claim 1, wherein the in-line monitor comprises:

an IR absorption cell, through which the organometallic compound gas is passed; and

an IR detector for measuring an IR absorption characteristic of the gas organometallic compound gas.